SEQUENCE LISTING

<110> Medical Research Council

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Klug, Aaron

Isalan, Mark

<120> Nucleic Acid Binding Polypeptide Library

<130> 71278/264974

<140> US 09/424,482

<141> 1999-11-23

<150> GB9710809.6

<151> 1997-05-23

<150> PCT/GB98/01510

<151> 1998-05-25

<160> 19

<170> PatentIn version 3.0

<210> 1

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<222> (2)..(4)

<223> n is any nucleotide

<400> 1
gnnncggcg 9

<210> 2

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<222> (3)..(4)

<223> n is any other nucleotide

<400> 2
gcnncggcg 9

<210> 3

<211> 9

<212> DNA

<213> Artificial

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<222> (5)..(9)

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<400> 3
gcggnnnnn 9

<210> 4

<211> 18

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<223> Description of Artificial Sequence: Structure A

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<221> SITE

<222> (1)..(1)

<223> Xaa is any amino acid

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<222> (3)..(3)

<223> Xaa is any amino acid

<220>

<221> SITE

<222> (5)..(13)

<223> Xaa is any amino acid

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<222> (15)..(17)

<223> Xaa is any amino acid

<220>

<221> VARIANT

<222> (1)..(1)

<223> 0 - 2 possible residues

<220>

<221> VARIANT

<222> (3)..(3)

<223> 1 - 5 possible residues

<220>

<221> VARIANT

<222> (5)..(13)

<223> 9 - 14 possible residues

<220>

<221> VARIANT

<222> (15)..(17)

<223> 3 - 6 possible residues

<220>

<221> SITE

<222> (18)..(18)

<223> X is His or Cys

<400> 4

Xaa Cys Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa
1 5 10 15

Xaa Xaa

<210> 5

<211> 21

<212> PRT

<213> Artificial

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<223> Description of Artificial Sequence: Structure B

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<221> SITE

<222> (1)..(1)

<223> Xaa is any amino acid

<220>

<221> SITE

<222> (3)..(4)

<223> Xaa is any amino acid

<220>

<221> SITE

<222> (6)..(7)

<223> Xaa is any amino acid

<220>

<221> SITE

<222> (9)..(13)

<223> Xaa is any amino acid

<220>

<221> SITE

<222> (15)..(16)

<223> Xaa is any amino acid

<220>

<221> SITE

<222> (18)..(20)

<223> Xaa is any amino acid

<220>

<221> VARIANT

<222> (3)..(4)

<223> 2 or 4 amino acids

<220>

<221> VARIANT

<222> (6)..(7)

<223> 2 or 3 amino acids

<400> 5

Xaa Cys Xaa Xaa Cys Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu Xaa Xaa
1 5 10 15

His Xaa Xaa Xaa His
20

<210> 6

<211> 4

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: Linker

<400> 6

Thr Gly Glu Lys
1

<210> 7

<211> 5

<212> PRT

<213> Artificial

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<223> Description of Artificial Sequence: Linker

<400> 7

Thr Gly Glu Lys Pro
1 5

<210> 8

<211> 26

<212> PRT

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<223> Description of Artificial Sequence: Consensus structure

<400> 8

Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser Asp
1 5 10 15

Leu Val Lys His Gln Arg Thr His Thr Gly
20 25

<210> 9

<211> 29

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: Consensus structure

<400> 9

Pro Tyr Lys Cys Ser Glu Cys Gly Lys Ala Phe Ser Gln Lys Ser Asn
1 5 10 15

Leu Thr Arg His Gln Arg Ile His Thr Gly Glu Lys Pro
20 25

<210> 10

<211> 6

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: Leader peptide

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Met Ala Glu Glu Lys Pro
1 5

<210> 11

<211> 9

<212> DNA

<213> Artificial

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<221> variation

<222> (1)..(5)

<223> n is any nucleotide

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nnnnnggcg 9

<210> 12

<211> 9

<212> DNA

<213> Artificial

<220>

<223> Description of Artificial Sequence: Zinc finger -DNA interaction sequenc

<400> 12
cgcccacgc 9

<210> 13

<211> 9

<212> DNA

<213> Artificial

<220>

<223> Description of Artificial Sequence: Zinc finger-DNA interaction s
equenc

<400> 13
acgcccacg 9

<210> 14

<211> 9

<212> DNA

<213> Artificial

<220>

<223> Description of Artificial Sequence: Zinc finger-DNA interaction s
equenc

<400> 14
gcgtgggcg 9

<210> 15

<211> 9

<212> DNA

<213> Artificial

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<223> Description of Artificial Sequence: Zinc finger-DNA interaction l
ibrary designed sequenc

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<221> variation

<222> (7)..(9)

<223> n is any nucleotide

<400> 15
acgccgnnn 9

<210> 16

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<212> PRT

<213> Artificial

<220>

<223> Description of artificial sequence: LIB-A and LIB-B Zinc finger

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Met Ala Glu Glu Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg
1 5 10 15

Arg Phe Ser Arg Ser Asp Glu Leu Thr Arg His Ile Arg Ile His Thr
20 25 30

Gly Gln Lys Pro
35

<210> 17

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Description of artificial sequence: LIB-A and LIB-B Zinc finger 2

<220>

<221> VARIANT

<222> (18)..(18)

<223> Xaa is any amino acid

<400> 17

Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp Asp Leu
1 5 10 15

Thr Xaa His Ile Arg Thr His Thr Gly Glu Lys Pro
20 25

<210> 18

<211> 28

<212> PRT

<213> Artificial

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<223> Description of Artificial Sequence: LIB-B Zinc finger 3

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<221> VARIANT

<222> (12)..(12)

<223> Xaa is any amino acid

<220>

<221> VARIANT

<222> (14)..(14)

<223> Xaa is any amino acid

<400> 18

Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Xaa Ser Xaa Asp Arg
1 5 10 15

Lys Arg His Thr Lys Ile His Leu Arg Gln Lys Asp
20 25

<210> 19

<211> 28

<212> PRT

<213> Artificial

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<223> Description of artificial sequence: LIB-A Zinc finger 3

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<221> VARIANT

<222> (12)..(15)

<223> Xaa is any amino acid

<400> 19

Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Xaa Xaa Xaa Xaa Arg
1 5 10 15

Lys Arg His Thr Lys Ile His Leu Arg Gln Lys Asp
20 25